State Water Resources Control Board
Division of Drinking Water

December 11, 2017

Mike Higgins, Secretary/ Treasurer
Valley Estates POA, Inc.
P.O. Box 328
Weldon, CA 93283

RE: Total Coliform Maximum Contaminant Level Failure for January 2017 – Valley Estates POA Water System, Water System No. 1500478 - Citation No. 03_19_17C_046

Dear Mr. Higgins,

The State Water Resources Control Board (hereinafter State Board), Division of Drinking Water has issued Citation No. 03_19_17C_046, for failure to comply with the provisions of the California Health & Safety Code and Title 22, California Code of Regulations. Specifically, the Valley Estates POA, Inc. Water System (hereinafter "Water System") failed the maximum contaminant level (MCL) for total coliform for January 2017.

The California Safe Drinking Water Act, Section 116577, provides for the State Board to be reimbursed by the public water system for costs incurred for preparing and issuing an enforcement action to that system. Therefore, the Water System has been billed for the preparation and issuance of this citation. The State Board's current billing rate for enforcement activities is $167 per hour. At this time, the State Board has spent approximately one (1) hour on enforcement activities associated with this violation. The hourly rate is subject to review and change upon approval. You will receive a bill for these costs following the end of the State's fiscal year, from our Fee Billing Unit in Sacramento.

Any person who is aggrieved by a citation, order or decision issued by the Deputy Director of the Division of Drinking Water under Article 8 (commencing with Health and Safety Code, Section 116625) or Article 9 (commencing with Health and Safety Code, Section 116650), of the Safe Drinking Water Act (Chapter 4, Part 12, Division 104, of the Health and Safety Code) may file a petition with the State Water Board for reconsideration of the citation, order or decision. Appendix 1 to the enclosed Citation contains the relevant statutory provisions for filing a petition for reconsideration (Health and Safety Code, Section 116701).

Petitions must be received by the State Board within 30 days of the issuance of the citation, order or decision by the Deputy Director. The date of issuance is the date when the Division of Drinking Water mails a copy of the citation, order or decision. If the 30th day falls on a Saturday, Sunday, or state holiday, the petition is due the following business day. Petitions must be received by 5:00 p.m.

Information regarding filing petitions may be found at:

http://www.waterboards.ca.gov/drinking_water/programs/petitions/index.shtml

If you have any questions regarding this matter, please contact our office at (661) 335-7315.

Sincerely,

Jaswinder Dhaliwal

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
DRINKING WATER FIELD OPERATIONS BRANCH

Enclosure: Citation No. 03_19_17C_046

Certified Mail No. 7015 0640 0006 0208 7044

cc: Kern County Dept. of Public Health, Environmental Health Division

Citation No. 03-19-17C-046

STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF DRINKING WATER

Name of Public Water System: Valley Estates POA

Water System No: 1500478

Attention: Mike Higgins, Secretary/ Treasurer
Valley Esttates POA
P.O. Box 328
Weldon, CA 93283

Issued: December 11, 2017

CITATION FOR NONCOMPLIANCE

TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION

CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64426.1

January 2017

The California Health and Safety Code (hereinafter "CHSC"), Section 116650 authorizes the State Water Resources Control Board (hereinafter "State Board") to issue a citation to a public water system when the State Board determines that the public water system has violated or is violating the California Safe Drinking Water Act (hereinafter "California SDWA"), (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit, or order issued or adopted thereunder.

The State Board, acting by and through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for the Division, hereby issues this citation pursuant to Section 116650 of the CHSC to the Valley Estates POA Water System (hereinafter "Water System") for violation of CHSC, Section 116555(a)(1) and, California Code of Regulations (hereinafter "CCR"), Title 22, Section 64426.1.

A copy of the applicable statutes and regulations are included in **Appendix 1**, which is appended hereto and incorporated by reference.

STATEMENT OF FACTS

The Water System is classified as a community water system with a population of 302, serving 113 connections. The Division received laboratory results for one (1) routine bacteriological sample collected on January 10, 2017, from the distribution system. The sample was analyzed for the presence of total coliform bacteria and *E.coli* bacteria and the results were positive for both. The Water System collected four (6) repeat samples on January 13, 2017, from the distribution system, two (2) repeat samples from Well 01-Marjorie and Well 02-Hanning, and one (1) sample from the 60,000-gallon storage tank. Two (2) of the repeat samples (collected from the distribution system) and the sample collected from the storage tank tested positive for *E.coli* bacteria. The two samples collected from the wells also counts towards the Ground Water Rule (GWR)'s triggered source sampling requirement.

Due to the *E.coli* positive sample from January 10, 2017, the State Board issued a Boil Water Notice (BWN) to the Water System, on January 12,

2017. Based on the certification document received from the Water System, the BWN was distributed to the customers on January 12, 2017. The Water System was required to have two consecutive rounds of total coliform negative samples to cancel the BWN.

The Water System provided emergency disinfection and flushing of the storage tank and distribution system to help clear bacteriological contamination from the distribution system. Flushing of the distribution system was conducted until chlorine residual was non-detect. Afterwards, six (6) special bacteriological samples were collected on February 1, 2017, from the distribution system and one (1) sample was collected from the storage tank, and all seven (7) samples tested negative for total coliform bacteria. A second set of seven samples was collected on February 8, 2017, and all seven (7) samples tested negative for total coliform bacteria. Five (5) routine samples collected on February 15, 2017, tested negative for total coliform bacteria. On February 16, 2017, the State Board issued a Safe Water Notice (SWN) to the Water System. The SWN was distributed to the customers on the same day.

All routine monthly bacteriological samples collected by the Water System, from March 2017 through October 2017, tested negative for total coliform bacteria. A summary of bacteriological results is included in **Appendix 2.**

In accordance with the federal Revised Total Coliform Rule (rTCR), a Level 2 Assessment was conducted by the Division staff on February 13, 2017. As a result of the assessment, minor deficiencies were found that could have potentially contributed to the presence of total coliform bacteria and *E.coli* bacteria. The Water System took immediate corrective actions to fix the

deficiencies outlined in the State Board's Level 2 Assessment findings letter dated February 16, 2017 (copy provided under **Appendix 3**).

As discussed above, Tier 1 public notification of the *E.coli* positive sample was provided on January 12, 2017, and Tier 2 notification for violation of Section 64426.1 (total coliform maximum contaminant level) was performed on February 16, 2017, in conformance with CCR, Title 22, Sections 64463.4(b) & (c) and 64465. Copies of the public notification and certification document are available on file.

DETERMINATION

CCR, Title 22, Section 64426.1, states that a public water system is in violation of the total coliform maximum contaminant level (MCL) if any repeat sample is positive for total coliform, fecal coliform or *E.coli*. During the month of January 2017, the Water System had one (1) routine *E.coli* positive sample and two (2) repeat *E.coli* positive samples. Therefore, the Division has determined that the Water System violated CCR, Title 22, Sections 64426.1(b)(2), 64426.1(b)(3), and 64426.1(b)(4), during January 2017.

DIRECTIVES

The **Water System** is hereby directed to take the following actions:

1. Comply with CCR, Title 22, Section 64426.1, in all future monitoring periods.

All submittals required by this Citation shall be electronically submitted to the Division at the following address. The subject line for all electronic

submittals corresponding to this citation shall include the following information: Water System name and number, citation number and title of the document being submitted.

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
DWPSDIST19@waterboards.ca.gov

The State Board reserves the right to make such modifications to this Citation as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Citation and shall be effective upon issuance.

Nothing in this Citation relieves the Water System of its obligation to meet the requirements of the California SDWA (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit or order issued or adopted thereunder.

PARTIES BOUND

This Citation shall apply to and be binding upon the Water System, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The directives of this Citation are severable, and the Water System shall comply with each and every provision thereof notwithstanding the effectiveness of any provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the State Board to: issue a citation or order with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any regulation, permit, standard, citation, or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the State Board to take action to suspend or revoke a permit that has been issued to a public water system if the public water system has violated applicable law or regulations or has failed to comply with an order of the State Board, and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the State Board. The State Board does not waive any further enforcement action by issuance of this Citation.

Jaswinder Dhaliwal — Dec. 11, 2017

Jaswinder S. Dhaliwal, P.E. — Date
Senior Sanitary Engineer
DRINKING WATER FIELD OPERATIONS BRANCH

Appendices (3):

Appendix 1: Applicable Statutes and Regulations

Appendix 2: Report Showing a Summary of Bacteriological Reports (January 2016 – October 017)

Appendix 3: Level 2 Assessment Findings Letter dated February 16, 2017

Certified Mail No. 7015 0640 0006 0208 7044

CC: Kern County Dept. of Public Health, Env. Health Division (w/o appendices)

APPENDIX 1: APPLICABLE STATUTES AND REGULATIONS FOR CITATION NO. 03_19_17C_046

NOTE: The following language is provided for the convenience of the recipient, and cannot be relied upon as the State of California's representation of the law. The published codes are the only official representation of the law. Regulations related to drinking water are in Titles 22 and 17 of the California Code of Regulations. Statutes related to drinking water are in the Health & Safety Code, the Water Code, and other codes.

California Health and Safety Code (CHSC):

Section 116577 of the CHSC, states in relevant part:
"(a) Each public water system shall reimburse the State Board for the actual costs incurred by the State Board for any of the following enforcement activities related to that water system:
(1) Preparing, issuing, and monitoring compliance with, an order or citation.
(2) Preparing, and issuing public notification
...
(b) The State Board shall submit an invoice for these enforcement costs to the public water system that requires payment prior to September 1 of the fiscal year following the fiscal year in which the costs were incurred. The invoice shall indicate the total hours expended, the reasons for the expenditure, and the hourly cost rate of the State Board. The costs set forth in the invoice shall not exceed the total actual costs to the State Board of the enforcement activities specified in this section."...

Section 116650 of the CHSC, states in relevant part:
"(a) If the State Board determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the State Board may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.
(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation
alleged to have been violated.
(c) A citation may specify a date for elimination or correction of the condition constituting the violation.
(d) A citation may include the assessment of a penalty as specified in subdivision (e).
(e) The department may assess a penalty in an amount not to exceed one thousand dollars ($1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation."

Section 116655 of the CHSC, states in relevant part:
"(a) Whenever the State Board determines that any person has violated or is violating this chapter, or any permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order doing any of the following:
(1) Directing compliance forthwith.
(2) Directing compliance in accordance with a time schedule set by the State Board.
(3) Directing that appropriate preventive action be taken in the case of a threatened violation.
(b) An order issued pursuant to this section may include, but shall not be limited to, any or all of the following requirements:
(1) That the existing plant, works, or system be repaired, altered, or added to.
(2) That purification or treatment works be installed.
(3) That the source of the water supply be changed.
(4) That no additional service connection be made to the system.
(5) That the water supply, the plant, or the system be monitored.
(6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the State Board."

Section 116701 of the CHSC, states in relevant part:
"(a) Within 30 days of issuance of an order or decision issued by the deputy director under Article 8 (commencing with Section 116625) or Article 9 (commencing with Section 116650), an aggrieved person may petition the state board for reconsideration. Where the order or decision of the deputy director is issued after a hearing under Chapter 5 (commencing with Section 11500) of Part 1 of Division 3 of Title 2 of the Government Code, this section shall apply instead of Section 11521 of the Government Code.
(b) The petition shall include the name and address of the petitioner, a copy of the order or decision for which the petitioner seeks reconsideration, identification of the reason the petitioner alleges the issuance of the order was inappropriate or improper, the specific action the petitioner requests, and other information as the state board may

prescribe. The petition shall be accompanied by a statement of points and authorities of the legal issues raised by the petition.
(c) The evidence before the state board shall consist of the record before the deputy director and any other relevant evidence that, in the judgment of the state board, should be considered to implement the policies of this chapter. The state board may, in its discretion, hold a hearing for receipt of additional evidence.
(d) The state board may refuse to reconsider the order or decision if the petition fails to raise substantial issues that are appropriate for review, may deny the petition upon a determination that the issuance of the order or decision was appropriate and proper, may set aside or modify the order or decision, or take other appropriate action. The state board's action pursuant to this subdivision shall constitute the state board's completion of its reconsideration.
(e) The state board, upon notice and hearing, if a hearing is held, may stay in whole or in part the effect of the order or decision of the deputy director.
(f) If an order of the deputy director is subject to reconsideration under this section, the filing of a petition for reconsideration is an administrative remedy that must be exhausted before filing a petition for writ of mandate under Section 116625 or 116700."

California Code of Regulations, Title 22 (CCR):

Section 64421 (General Requirements) states:
(a) Each water supplier shall:
(1) Develop a routine sample siting plan as required in section 64422;
(2) Collect routine, repeat and replacement samples as required in Sections 64423, 64424, and 64425;
(3) Have all samples analyzed by laboratories approved to perform those analyses by the State Board and report results as required in section 64423.1;
(4) Notify the State Board when there is an increase in coliform bacteria in bacteriological samples as required in section 64426; and
(5) Comply with the Maximum Contaminant Level as required in section 64426.1.
(b) Water suppliers shall perform additional bacteriological monitoring as follows:
(1) After construction or repair of wells;
(2) After main installation or repair;
(3) After construction, repair, or maintenance of storage facilities; and
(4) After any system pressure loss to less than five psi. Samples collected shall represent the water quality in the affected portions of the system.

Section 64422 (Routine Sample Siting Plan) states:
(a) By September 1, 1992, each water supplier shall develop and submit to the State Board a siting plan for the routine collection of samples for total coliform analysis, subject to the following:
(1) The sample sites chosen shall be representative of water throughout the distribution system including all pressure zones, and areas supplied by each water source and distribution reservoir.
(2) The water supplier may rotate sampling among the sample sites if the total number of sites needed to comply with (a)(1) above exceeds the number of samples required according to Table 64423-A. The rotation plan shall be described in the sample siting plan.
(b) If personnel other than certified operators will be performing field tests and/or collecting samples, the sample siting plan shall include a declaration that such personnel have been trained, pursuant to §64415 (b).
(c) The supplier shall submit an updated plan to the State Board at least once every ten years and at any time the plan no longer ensures representative monitoring of the system.

Section 64423 (Routine Sampling) states:
(a) Each water supplier shall collect routine bacteriological water samples as follows:
(1) The minimum number of samples for community water systems shall be based on the known population served or the total number of service connections, whichever results in the greater number of samples, as shown in Table 64423-A. A community water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency. The minimum reduced frequency shall not be less than one sample per quarter.
(2) The minimum number of samples for nontransient-noncommunity water systems shall be based on the known population served as shown in Table 64423-A during those months when the system is operating. A nontransient-noncommunity water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency if it has not violated the requirements in this article during the past twelve months. The minimum reduced frequency shall not be less than one sample per quarter.
(3) The minimum number of samples for transient-noncommunity water systems using groundwater and serving 1000 or fewer persons a month shall be one in each calendar quarter during which the system provides water to the public.
(4) The minimum number of samples for transient-noncommunity water systems using groundwater and serving more than 1000 persons during any month shall be based on the known population served as shown in Table 64423-A, except that the water supplier may request from the State Board a reduction in monitoring for any month the system serves 1000 persons or fewer. The minimum reduced frequency shall not be less than one sample in each calendar quarter during which the system provides water to the public.

(5) The minimum number of samples for transient-noncommunity water systems using approved surface water shall be based on the population served as shown in Table 64423-A. A system using groundwater under the direct influence of surface water shall begin monitoring at this frequency by the end of the sixth month after the State Board has designated the source to be approved surface water.

(6) A public water system shall collect samples at regular time intervals throughout the month, except that a system using groundwater which serves 4,900 persons or fewer may collect all required samples on a single day if they are taken from different sites.

(b) In addition to the minimum sampling requirements, all water suppliers using approved surface water which do not practice treatment in compliance with Sections 64650 through 64666, shall collect a minimum of one sample before or at the first service connection each day during which the turbidity level of the water delivered to the system exceeds 1 NTU. The sample shall be collected within 24 hours of the exceedance and shall be analyzed for total coliforms. If the water supplier is unable to collect and/or analyze the sample within the 24-hour time period because of extenuating circumstances beyond its control, the supplier shall notify the State Board within the 24-hour time period and may request an extension. Sample results shall be included in determining compliance with the MCL for total coliforms in Section 64426.1.

(c) If any routine, repeat, or replacement sample is total coliform-positive, then the water supplier shall collect repeat samples in accordance with Section 64424 and comply with the reporting requirements specified in Sections 64426 and 64426.1.

Table 64423-A

Minimum Number of Routine Total Coliform Samples

Monthly Population Served	Service Connections	Minimum Number of Samples
25 to 1000	15 to 400	1 per month
1,001 to 2,500	401 to 890	2 per month
2,501 to 3,300	891 to 1,180	3 per month
3,301 to 4,100	1,181 to 1,460	4 per month
4,101 to 4,900	1,461 to 1,750	5 per month
4,901 to 5,800	1,751 to 2,100	6 per month
5,801 to 6,700	2,101 to 2,400	7 per month
6,701 to 7,600	2,401 to 2,700	2 per week
7,601 to 12,900	2,701 to 4,600	3 per week
12,901 to 17,200	4,601 to 6,100	4 per week
17,201 to 21,500	6,101 to 7,700	5 per week
21,501 to 25,000	7,701 to 8,900	6 per week
25,001 to 33,000	8,901 to 11,800	8 per week
33,001 to 41,000	11,801 to 14,600	10 per week
41,001 to 50,000	14,601 to 17,900	12 per week
50,001 to 59,000	17,901 to 21,100	15 per week
59,001 to 70,000	21,101 to 25,000	18 per week
70,001 to 83,000	25,001 to 29,600	20 per week
83,001 to 96,000	29,601 to 34,300	23 per week
96,001 to 130,000	34,301 to 46,400	25 per week
130,001 to 220,000	46,401 to 78,600	30 per week
220,001 to 320,000	78,601 to 114,300	38 per week
320,001 to 450,000	114,301 to 160,700	50 per week
450,001 to 600,000	160,701 to 214,300	55 per week
600,001 to 780,000	214,301 to 278,600	60 per week
780,001 to 970,000	278,601 to 346,400	70 per week
970,001 to 1,230,000	346,401 to 439,300	75 per week
1,230,001 to 1,520,000	439,301 to 542,900	85 per week
1,520,001 to 1,850,000	542,901 to 660,700	90 per week
1,850,001 to 2,270,000	660,701 to 810,700	98 per week
2,270,001 to 3,020,000	810,701 to 1,078,600	105 per week
3,020,001 to 3,960,000	1,078,601 to 1,414,300	110 per week
3,960,001 or more	1,414,301 or more	120 per week

Section 64423.1 (Sample Analysis and Reporting of Results) states:

(a) The water supplier shall designate (label) each sample as routine, repeat, replacement, or "other" pursuant to Section 64421(b), and have each sample analyzed for total coliforms. The supplier also shall require the laboratory to analyze the same sample for fecal coliforms or Escherichia coli (E. coli) whenever the presence of total coliforms is indicated. As a minimum, the analytical results shall be reported in terms of the presence or absence of total or fecal coliforms, or E. coli in the sample, whichever is appropriate.

(b) The water supplier shall require the laboratory to notify the supplier within 24 hours, whenever the presence of total coliforms, fecal coliforms or E. coli is demonstrated in a sample or a sample is invalidated due to interference problems, pursuant to Section 64425(b), and shall ensure that a contact person is available to receive these

analytical results 24-hours a day. The water supplier shall also require the laboratory to immediately notify the State Board of any positive bacteriological results if the laboratory cannot make direct contact with the designated contact person within 24 hours.
(c) Analytical results of all required samples collected for a system in a calendar month shall be reported to the State Board not later than the tenth day of the following month, as follows:

(1) The water supplier shall submit a monthly summary of the bacteriological monitoring results to the State Board.

(2) For systems serving fewer than 10,000 service connections or 33,000 persons, the water supplier shall require the laboratory to submit copies of all required bacteriological monitoring results directly to the State Board.

(3) For systems serving more than 10,000 service connections, or 33,000 persons, the water supplier shall require the laboratory to submit copies of bacteriological monitoring results for all positive routine samples and all repeat samples directly to the State Board.

(d) Laboratory reports shall be retained by the water supplier for a period of at least five years and shall be made available to the State Board upon request.

Section 64424 (Repeat Sampling) states in relevant part:
(a) If a routine sample is total coliform-positive, the water supplier shall collect a repeat sample set as described in paragraph (1) within 24 hours of being notified of the positive result. The repeat samples shall all be collected within the same 24 hour time period. A single service connection system may request that the State Board allow the collection of the repeat sample set over a four-day period.

(1) For a water supplier that normally collects more than one routine sample a month, a repeat sample set shall be at least three samples for each total coliform-positive sample. For a water supplier that normally collects one or fewer samples per month, a repeat sample set shall be at least four samples for each total coliform-positive sample.

(2) If the water supplier is unable to collect the samples within the 24-hour time period specified in subsection (a) or deliver the samples to the laboratory within 24 hours after collection because of circumstances beyond its control, the water supplier shall notify the State Board within 24 hours. The State Board will then determine how much time the supplier will have to collect the repeat samples.

(b) When collecting the repeat sample set, the water supplier shall collect at least one repeat sample from the sampling tap where the original total coliform-positive sample was taken. Other repeat samples shall be collected within five service connections upstream or downstream of the original site. At least one sample shall be from upstream and one from downstream unless there is no upstream and/or downstream service connection.
(c) If one or more samples in the repeat sample set is total coliform-positive, the water supplier shall collect and have analyzed an additional set of repeat samples as specified in subsections (a) and (b). The supplier shall repeat this process until either no coliforms are detected in one complete repeat sample set or the supplier determines that the MCL for total coliforms specified in Section 64426.1 has been exceeded and notifies the State Board.
(d) If a public water system for which fewer than five routine samples/month are collected has one or more total coliform-positive samples, the water supplier shall collect at least five routine samples the following month. If the supplier stops supplying water during the month after the total coliform-positive(s), at least five samples shall be collected during the first month the system resumes operation. A water supplier may request the State Board waive the requirement to collect at least five routine samples the following month, but a waiver will not be granted solely on the basis that all repeat samples are total coliform-negative. To request a waiver, one of the following conditions shall be met:

(1) The State Board conducts a site visit before the end of the next month the system provides water to the public to determine whether additional monitoring and/or corrective action is necessary to protect public health.

(2) The State Board determines why the sample was total coliform-positive and establishes that the system has corrected the problem or will correct the problem before the end of the next month the system serves water to the public. If a waiver is granted, a system shall collect at least one routine sample before the end of the next month it serves water to the public and use it to determine compliance with Section 64426.1.

Section 64425 (Sample Invalidation) states:
(a) A water supplier may request the Department to invalidate a sample for which a total coliform-positive result has been reported if the supplier demonstrates:

(1) All repeat sample(s) collected at the same tap as the original total coliform-positive sample also are total coliform- positive and all repeat samples collected within five service connections of the original tap are not total coliform-positive; or

(2) The laboratory did not follow the prescribed analytical methods pursuant to §64415(a), based on a review of laboratory documentation by the Department. The supplier shall submit to the Department a written request for invalidation along with the laboratory documentation, the supplier's sample collection records and any observations noted during sample collection and delivery. The water supplier shall require the laboratory to provide the supplier with documentation which shall include, but not be limited to:

(A) A letter from the director of the laboratory having generated the data, confirming the invalidation request by reason of laboratory accident or error;

(B) Complete sample identification, laboratory sample log number (if used), date and time of collection, date and time of receipt by the laboratory, date and time of analysis for the sample(s) in question;
(C) Complete description of the accident or error alleged to have invalidated the result(s);
(D) Copies of all analytical, operating, and quality assurance records pertaining to the incident in question; and
(E) Any observations noted by laboratory personnel when receiving and analyzing the sample(s) in question.

(b) Whenever any total coliform sample result indicative of the absence of total coliforms has been declared invalid by the laboratory due to interference problems as specified at 40 Code Federal Regulations, Section 141.2100(c)(2), the supplier shall collect a replacement sample from the same location as the original sample within 24 hours of being notified of the interference problem, and have it analyzed for the presence of total coliforms. The supplier shall continue to re-sample at the original site within 24 hours and have the samples analyzed until a valid result is obtained.

Section 64426 (Significant Rise in Bacterial Count) states in relevant part:

(a) Any of the following criteria shall indicate a possible significant rise in bacterial count:
(1) A system collecting at least 40 samples per month has a total coliform-positive routine sample followed by two total coliform-positive repeat samples in the repeat sample set;
(2) A system has a sample which is positive for fecal coliform or E. coli; or
(3) A system fails the total coliform Maximum Contaminant Level (MCL) as defined in Section 64426.1.

(b) When the coliform levels specified in subsection (a) are reached or exceeded, the water supplier shall:
(1) Contact the State Board by the end of the day on which the system is notified of the test result or the system determines that it has exceeded the MCL, unless the notification or determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours; and
(2) Submit to the State Board information on the current status of physical works and operating procedures which may have caused the elevated bacteriological findings, or any information on community illness suspected of being waterborne. This shall include, but not be limited to:
(A) Current operating procedures that are or could potentially be related to the increase in bacterial count;
(B) Any interruptions in the treatment process;
(C) System pressure loss to less than 5 psi;
(D) Vandalism and/or unauthorized access to facilities;
(E) Physical evidence indicating bacteriological contamination of facilities;
(F) Analytical results of any additional samples collected, including source samples;
(G) Community illness suspected of being waterborne; and
(H) Records of the investigation and any action taken.

Section 64426.1 (Total Coliform Maximum Contaminant Level (MCL)) states in relevant part:

(b) A public water system is in violation of the total coliform MCL when any of the following occurs:
(1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
(2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
(3) Any repeat sample is fecal coliform-positive or E. coli-positive; or
(4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.

(c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the State Board by the end of the business day on which this is determined, unless the determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraph (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraph (b)(3) or (4), pursuant to section 64463.1.

Section 64463.1 (Tier 1 Public Notice) states in relevant part:

(a) A water system shall give public notice pursuant to this section and section 64465 if any of the following occurs:
(1) Violation of the total coliform MCL when:
(A) Fecal coliform or E. coli are present in the distribution system; or
(B) When any repeat sample tests positive for coliform and the water system fails to test for fecal coliforms or E. coli in the repeat sample;...

(b) As soon as possible within 24 hours after learning of any of the violations in subsection (a) or being notified by the State Board that it has determined there is a potential for adverse effects on human health [pursuant to paragraph (a)(4), (5), or (6)], the water system shall:
(1) Give public notice pursuant to this section;
(2) Initiate consultation with the State Board within the same timeframe; and

(3) Comply with any additional public notice requirements that are determined by the consultation to be necessary to protect public health.

(c) A water system shall deliver the public notice in a manner designed to reach residential, transient, and nontransient users of the water system and shall use, as a minimum, one of the following forms:

(1) Radio or television;

(2) Posting in conspicuous locations throughout the area served by the water system;

(3) Hand delivery to persons served by the water system; or

(4) Other method approved by the State Board, based on the method's ability to inform water system users.

Section 64463.4 (Tier 2 Public Notice) states:

(a) A water system shall give public notice pursuant to this section if any of the following occurs:

(1) Any violation of the MCL, MRDL, and treatment technique requirements, except:

(A) Where a Tier 1 public notice is required under section 64463.1; or

(B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

(2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;

(3) Other violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17 and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; or

(4) Failure to comply with the terms and conditions of any variance or exemption in place.

(b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the State Board's written approval based on the violation or occurrence having been resolved and the State Board's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:

(1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;

(2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the State Board's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and

(3) For turbidity violations pursuant to sections 64652.5(c)(2) and 64653(c), (d) and (f), as applicable, a water system shall consult with the State Board as soon as possible within 24 hours after the water system learns of the violation to determine whether a Tier 1 public notice is required. If consultation does not take place within 24 hours, the water system shall give Tier 1 public notice within 48 hours after learning of the violation.

(c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:

(1) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by;

(A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and

(B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):

1. Publication in a local newspaper;
2. Posting in conspicuous public places served by the water system, or on the Internet; or
3. Delivery to community organizations.

(2) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:

(A) Posting in conspicuous locations throughout the area served by the water system; and

(B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:

1. Publication in a local newspaper or newsletter distributed to customers;
2. E-mail message to employees or students;
3. Posting on the Internet or intranet; or
4. Direct delivery to each customer.

Section 64465 (Public Notice Content and Format) states in relevant part:

(a) Each public notice given pursuant to this article, except Tier 3 public notices for variances and exemptions pursuant to subsection (b), shall contain the following:

(1) A description of the violation or occurrence, including the contaminant(s) of concern, and (as applicable) the contaminant level(s);
(2) The date(s) of the violation or occurrence;
(3) Any potential adverse health effects from the violation or occurrence, including the appropriate standard health effects language from appendices 64465-A through G;
(4) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in drinking water;
(5) Whether alternative water supplies should be used;
(6) What actions consumers should take, including when they should seek medical help, if known;
(7) What the water system is doing to correct the violation or occurrence;
(8) When the water system expects to return to compliance or resolve the occurrence;
(9) The name, business address, and phone number of the water system owner, operator, or designee of the water system as a source of additional information concerning the public notice;
(10) A statement to encourage the public notice recipient to distribute the public notice to other persons served, using the following standard language: —Please share this information with all the other people who drink this water, especially those who may not have received this public notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail; and
(11) For a water system with a monitoring and testing procedure violation, this language shall be included: "We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During [compliance period dates], we ['did not monitor or test' or 'did not complete all monitoring or testing'] for [contaminant(s)], and therefore, cannot be sure of the quality of your drinking water during that time." ...

(c) A public water system providing notice pursuant to this article shall comply with the following multilingual-related requirements:

(2) For a Tier 2 or Tier 3 public notice:

(A) The notice shall contain information in Spanish regarding the importance of the notice, or contain a telephone number or address where Spanish-speaking residents may contact the public water system to obtain a translated copy of the notice or assistance in Spanish; and
(B) When a non-English speaking group other than Spanish-speaking exceeds 1,000 residents or 10 percent of the residents served by the public water system, the notice shall include:

1. Information in the appropriate language(s) regarding the importance of the notice; or
2. A telephone number or address where such residents may contact the public water system to obtain a translated copy of the notice or assistance in the appropriate language; and

(3) For a public water system subject to the Dymally-Alatorre Bilingual Services Act, Chapter 17.5, Division 7, of the Government Code (commencing with section 7290), meeting the requirements of this Article may not ensure compliance with the Dymally-Alatorre Bilingual Services Act.

(d) Each public notice given pursuant to this article shall:
(1) Be displayed such that it catches people's attention when printed or posted and be formatted in such a way that the message in the public notice can be understood at the eighth-grade level;
(2) Not contain technical language beyond an eighth-grade level or print smaller than 12 point; and
(3) Not contain language that minimizes or contradicts the information being given in the public notice.

Appendix 64465-A. Health Effects Language - Microbiological Contaminants.

Contaminant	Health Effects Language
Total Coliform	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
Fecal coliform/E. coli	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
Turbidity	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Section 64469 (Reporting Requirements) states in relevant part:

(d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under section 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.

Section 64481 (Content of the Consumer Confidence Report) states in relevant part:
(g) For the year covered by the report, the Consumer Confidence Report shall note any violations of paragraphs (1) through (7) and give related information, including any potential adverse health effects, and the steps the system has taken to correct the violation.

(1) Monitoring and reporting of compliance data.

APPENDIX 2. Report Showing a Summary of Bacteriological Results

(January 2016 - October 2017)

For Citation No. 03_19_17C_046

Valley Estates POA, Inc.

1500478 *Distribution System Freq: 1/M*

Sample Date	*Time*	*Location*	*T Coli*	*E Coli*	*F Coli*	*Type*	*Cl2*	*Violation*	*Comment*
1/26/2016	9:22	1ROU	A	A		Routine			
2/3/2016	10:59	2ROU	A	A		Routine			
3/2/2016	10:05	3ROU	A	A		Routine			
4/6/2016	10:19	4ROU	A	A		Routine			
5/4/2016	10:19	5ROU	A	A		Routine			
6/1/2016	9:44	1ROU	A	A		Routine			
7/20/2016	8:59	1ROU	A	A		Routine			
8/10/2016	10:34	2ROU	A	A		Routine			
9/7/2016	10:11	3ROU	A	A		Routine			
10/5/2016	10:10	4ROU	A	A		Routine			
11/2/2016	10:13	5ROU	A	A		Routine			
12/7/2016	11:00	6ROU	A	A		Routine	0.06		
1/10/2017	10:35	1ROU	P	P		Routine			
1/13/2017	8:53	2ROU	P	P		Repeat		MCL	Citation #03_19_17C_046 Issued
1/13/2017	9:08	Storage Tank	P	P		Other			
1/13/2017	9:15	1ROU	A	A		Repeat			
1/13/2017	9:22	4ROU	P	P		Repeat			
1/13/2017	9:27	3ROU	A	A		Repeat			
1/13/2017	9:29	5ROU	A	A		Repeat			
1/13/2017	9:40	5405 Robin St.	A	A		Repeat			
2/1/2017	9:53	5405 Robin St.	A	A		Routine			
2/1/2017	9:59	3ROU	A	A		Routine			
2/1/2017	10:04	5ROU	A	A		Routine			
2/1/2017	10:10	1ROU	A	A		Routine			
2/1/2017	10:13	2ROU	A	A		Routine			
2/1/2017	10:17	4ROU	A	A		Routine			
2/1/2017	10:25	Storage Tank	A	A		Routine			
2/8/2017	9:15	2ROU	A	A		Routine			
2/8/2017	9:20	4ROU	A	A		Routine			
2/8/2017	9:25	3ROU	A	A		Routine			
2/8/2017	9:29	5405 Robin St.	A	A		Routine			
2/8/2017	9:34	1ROU	A	A		Routine			
2/8/2017	9:40	5ROU	A	A		Routine			
2/8/2017	9:47	Storage Tank	A	A		Routine			
2/15/2017	9:25	2ROU	A	A		Routine			
2/15/2017	9:29	4ROU	A	A		Routine			

Sample Date	*Time*	*Location*	*T Coli*	*E Coli*	*F Coli*	*Type*	*Cl2*	*Violation*	*Comment*
2/15/2017	9:36	3ROU	A	A		Routine			
2/15/2017	9:40	5ROU	A	A		Routine			
2/15/2017	9:47	6 ROU	A	A		Routine			
3/1/2017	10:15	3ROU	A	A		Routine			
4/12/2017	10:00	4ROU	A	A		Routine			
5/10/2017	10:44	5ROU	A	A		Routine			
5/12/2017	9:25	2ROU	A	A		Routine			
6/7/2017	10:05	6	A	A		Routine			
7/26/2017	10:00	1ROU	A	A		Routine			
8/2/2017	12:10	2ROU	A	A		Routine			
9/6/2017	11:30	3ROU	A	A		Routine			
10/4/2017	10:45	4ROU	A	A		Routine			

Valley Estates POA, Inc.

1500478 *Source Monitoring Freq:*

Sample Date	*Time*	*Source*	*T Coli*	*E Coli*	*F Coli*	*Violation*	*Comment*
1/13/2017	8:57	Hanning Well	<1.1	<1.1			GWR & Repeat Sampl
1/13/2017	9:33	Majorie Well	<1.1	<1.1			GWR & Repeat Sampl

APPENDIX 3. Findings of Level 2 Assessment- State Board's Letter dated February 16, 2017

For Citation No. 03_19_17C_046

CALIFORNIA
Water Boards

Edmund G. Brown Jr.
Governor

Matthew Rodriquez
Secretary for
Environmental Protection

State Water Resources Control Board
Division of Drinking Water

February 16, 2017

Mike Higgins, Secretary/Treasurer
Valley Estates POA
P.O. Box 966
Weldon, CA 93240

FIELD INSPECTION/LEVEL 2 ASSESSMENT OF VALLEY ESTATES WATER SUPPLY SYSTEM TO INVISTIGBACTERIOLOGICAL CONTAMINATION, SYSTEM NO. 1500478

Dear Mr. Higgins:

The Division of Drinking Water, State Water Resources Control Board (hereinafter State Board) regulates the domestic water supply system (Water System) of the Valley Estates POA, Inc. On February 13, 2017, AbdelRahman Shurbaji (Ph.D., P.E.), Associate Sanitary Engineer, with the State Board conducted an inspection of the Water System. The inspection was conducted to complete an investigation (Level 2 Assessment) of the cause of the January 2017 bacteriological contamination in the Water System's distribution system. This investigation is required per the federal revised Total Coliform Rule (rTCR) to identify a possible cause of the *E.Coli* contamination in January 2017, and any needed corrective actions. The completed form titled "Revised Total Coliform Rule - Level 2 Assessment" documents the investigation and is provided under **Enclosure 1**. Photos taken are provided under **Enclosure 2**.

The investigation was triggered by an *E.coli* positive sample, collected on January 11, 2017, from a routine distribution system sample site. Due to the E.coli positive sample, State Board issued a Tier 1 Boil Water Notice (BWN) on January 12, 2017. On January 13 2017, the contracted water sampler, from McMor Chlorination, collected four (4) repeat samples from the distribution system and additional samples from the two system wells and the 60,000-gallon storage tank. Two repeat sites were positive for *E.coli* bacteria and the storage tank was also positive for *E.coli* bacteria. The State Board determined that the Water System violated the *E.coli* MCL (under the federal rTCR) for the month of January 2017, triggering completion of Level 2 Assessment. Following confirmation of the *E.coli* positive repeat samples, you and/or your operators flushed the distribution system, drained the storage tank, and provided emergency chlorination by injecting chlorine at the well(s). After discontinuing the emergency chlorination, the distribution system was flushed until no chlorine residual was detected in the distribution system. Due to heavy rains in the area and low system demand, it took several days to reach non-detect chlorine residual in the distribution system.

On February 1, 2017, follow-up samples were collected from six distribution sites and one from the storage tank. All these samples tested negative for total coliform bacteria. In order to cancel the BWN, the Water System was required to have two consecutive rounds of total coliform negative samples. A second set of seven samples (same locations as February 1) was

collected on February 8, 2017; all these samples tested negative for total coliform bacteria. A summary of laboratory results is given in **Enclosure 3**.

The 60,000-gallon storage tank floats on the distribution system and provides the needed pressure. An exact cause of the contamination has not been identified. A possible cause of *E.coli* positive samples in the distribution system may be from the introduction of bird droppings via the loose (and missing) bolts of the roof vent cover into the water storage tank, following heavy rains. Because water flows from the tank into the distribution system by gravity, and in absence of any disinfection, *E.coli* bacteria was detected in the distribution system. Based on the site inspection and discussions with you, the needed repairs were made by installing finder washers and new bolts to make sure no holes are there in the vent cover and the vent is properly secured and screened. It is worth mentioning that Mr. Omar Mostafa from the State Board had conducted a sanitary survey of the Water System, on December 16, 2015, and identified the need to periodically inspect and clean the storage tank. This issue has been addressed only after the January 2017, bacteriological contamination. **A visual inspection of the storage tank should be routinely conducted, by climbing the tank and records of the inspection should be maintained.**

During the February 13, 2017, site inspection, other physical deficiencies were identified at the well sites, but they did not likely cause the bacteriological contamination because both wells tested negative for total coliform bacteria, per sampling conducted on January 13, 2017. Caulking was needed to seal gaps at well casing caps on both wells. Per pictures received on February 14, 2017, from you, all needed corrections were made (photos provided in Enclosure 2). Based on the corrective actions taken by the Water System, the State Board will soon cancel the Boil Water Notice that was issued on January 12, 2017, by emailing you a Safe Water Notice.

We appreciate the assistance provided during the inspection/investigation visit. If you have any questions regarding this letter, please contact our office at (661) 335-7315 or via email at DWPDIST19@waterboards.ca.gov.

Sincerely,

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
Division of Drinking Water

Enclosure 1: Level 2 Assessment Form
Enclosure 2: Pictures Taken on February 13, 2017
Enclosure 3: Test Results Summary

cc: Kern County Dep. of Public Health, Env. Health Services Division (w/o enclosures)
McMor Chlorination (via e-mail)

JSD/ams
L1500478EColiLevel2Assessment.docx

Enclosure 1

Revised Total Coliform Rule - Level 2 Assessment

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

This form is intended to assist Division of Drinking Water (DDW) or Local Primacy Agency (LPA) Staff in completing the investigation required by the federal revised Total Coliform Rule (rTCR) [effective April 1, 2016]. If the answer has a large box around it, it is an issue and needs to be described by LPA or DDW in the next column. Please include the question number in the description. The PWS must address each issue described in the Corrective Action column. **To avoid a violation, the water system must submit to DDW/LPA a completed assessment report no later than 30 days after the trigger date.**

PWS ID#: j5004478 PWS Name: [Valley Estates POA, Inc. Circle one: (CWS) NTNC / TNC

Operator in Responsible Charge (print name): McMor, Denis Gibson Phone: 661-323-9400

Assessment trigger date: 1/12/2017 Date Assessment Completed: 2-13-2017

SEASONAL: YES ☐ NO ☒ Reason for Assessment: E. Coli positive

Person who collected TC positive samples: D. Gonzalez Contact info for person who collected samples: McMor (661) 323-9400

Name of Certified Lab conducting sample analysis: BC Laboratories Lab Contact 661 Venessa Sandoval

Assessment Elements	Y	N	N/A	Issue Description	Corrective Action Taken or Planned to be Taken and Date
1. Review of the sample sites	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
1.1 Was the sample taken at the routine coliform site? List the name(s) of the positive sample site(s).	☒	☐	☐		1.11 T. Coliform +ve from Routine 2 site (5605 Hanning)
1.2 Was the tap area unsanitary at the time of sampling?	☐	☒	☐		
1.3 Was this sample taken from an outside faucet?	☐	☒	☐		
1.4 Was the sample taken from a swivel tap?	☐	☒	☐		
1.5 Did the tap have a point of use treatment device on it?	☐	☒	☐		
1.6 Does the building where the sample was taken have a point of entry device?	☐	☒	☐		
1.7 Has this location undergone any plumbing replacements or repairs?	☐	☒	☐		
1.8 Are there any possible cross connections around the sample site (including yard hydrants and stock tanks)?	☐	☒	☐		
1.9 Is this location near a storage tank or dead end?	☐	☒	☐		
1.10 Have there been any analytical results or any additional samples collected, including source samples, which were positive (not for compliance)?	☒	☐	☐	1.10 → Repeat samples on 1/13/17 were positive for E. coli from sites: Routine 2, Routine 4 and (5605 Hanning) (14304 Allen) storage tank	
1.11 Prior to this incident, when was the most recent satisfactory coliform samples taken? Date:	12/19/2016.				
1.12 Any other sample site issues not previously mentioned?	☐	☐	☐		

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

2.	Review of sample protocol	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
2.1	Was the positive sample(s) taken by the operator in responsible charge? Provide name of sampler.	☒	☐	☐	2.1. D. Gonzalez	
2.2	Is the sampler a regular, trained sampler?	☒	☐	☐		
2.3	Was a laboratory-provided TC sample bottle used?	☒	☐	☐		
2.4	Was the aerator removed?	☐	☐	☒		
2.5	Was the water tap flushed for at least 5 minutes?	☒	☐	☐		
2.6	Was the tap disinfected or flamed?	☒	☐	☐		
2.7	Did the sample get too warm prior to being placed on ice?	☐	☒	☐		
2.8	Were there other sampler errors? Describe	☐	☒	☐		
2.9	If it is a seasonal system, were there any problems during the most recent start-up procedure?	☐	☐	☒		
2.10	Any other sample protocol issues not previously mentioned (e.g. vandalism or unauthorized access)?	☐	☒	☐		
3.	Review of the distribution system.	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
3.1	Have any mains or service lines recently been repaired, replaced or installed?	☐	☒	☐	3.7. Chlorination treatment is not provided. So, no chlorine residual under normal operation condition. 3.9 Air Relief valve on well discharge line had a dirty screen with algae growth so leakup is possible.	
3.2	Have fire hydrants or blow offs been recently flushed/used/sheared?	☐	☒	☐		
3.3	Have valves been recently exercised to direct flow?	☐	☒	☐		
3.4	Any leaks or main breaks noted?	☐	☒	☐		
3.5	Are all of the backflow prevention devices operational and maintained?	☒	☐	☐		
3.6	Was there a total loss of pressure, low pressure (<20 psi) or changes in water pressure? If yes, when?	☐	☒	☐		
3.7	Any areas of the distribution with low disinfectant levels (<0.2 mg/L)?	☒	☐	☐		
3.8	Any recent pump station failures or repairs?	☐	☒	☐		
3.9	Air relief valve leaking?	☒	☐	☐		
3.10	Standing water or debris in (air relief) valve vault?	☐	☐	☒		
3.11	Any recent power loss?	☐	☒	☐		
3.12	Any unprotected cross connections (including yard hydrants and stock tanks)?	☐	☒	☐		
3.13	Has high turbidity been detected in the distribution system?	☐	☒	☐		
3.14	Is there evidence of intentional contamination or vandalism?	☐	☒	☐		
3.15	Any other distribution issue not previously mentioned (e.g. other O&M activities that could have introduced coliforms)?	☐	☒	☐		

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

4.	Review of storage tank(s) (Note the specific facility if any issues are found)	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
4.1	Is there a presence of animals or insects in the tank(s)?	☐	☒	☐	4.1. I was not able to climb tank. ~~Operator~~ Mr. did repair work on tank roof following the E. Coli incidince.	4.12. Tank drained after the E. Coli incidince.
4.2	Are there breaches or holes of any sort into tank(s)?	☒	☐	☐		
4.3	Is there any presence of animal droppings around openings, vents or overflows?	☒	☐	☐		
4.4	Is there sediment buildup and floating debris in tank(s)?	☐	☒	☐		
4.5	Have the tank(s) been cleaned within the last 5 years? If not, list when it was last cleaned.	☒	☐	☐		
4.6	Are the vents and overflows protected against entry from animals, insects or other contaminants?	☒	☐	☐		
4.7	Are the screens damaged or not properly installed?	☐	☒	☐		
4.8	Does the reservoir have a common inlet/outlet?	☒	☐	☐		
4.9	Is the overflow pipe directly connected to a tank drain, sanitary sewer or storm drain?	☒	☐	☐		
4.10	Does the hatch have a solid, water proof, shoebox type lid that is properly sealed?	☒	☐	☐		
4.11	Was the hatch locked or secured?	☒	☐	☐		
4.12	Has the tank been accidently drained?	☐	☒	☐		
4.13	Have there been high flows through the tank?	☐	☒	☐		
4.14	Was there high water age in the tank (infrequent water use)?	☐	☒	☐		
4.15	Was the sample taken when the tank was at the low level mark?	☐	☒	☐		
4.16	Failure or improper operation on tank telemetry/altitude valves/controls?	☐	☒	☐		
4.17	Any recent repairs on the tank(s)?	☐	☒	☐		
4.18	Was there any power loss?	☐	☒	☐		
4.19	Is the site secured (e.g. fencing, locked gates, etc.)?	☒	☐	☐		
4.20	Was the tank vandalized or subject to tampering?	☐	☒	☐		
4.21	Any other storage tank issues not previously mentioned above?	☐	☒	☐		

	Pressure Tanks (if applicable)	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
4.22	What is the volume of the pressure tank? Attach additional sheets if needed.					
4.23	What is the age of the pressure tank? Attach additional sheets if needed.					
4.24	Does the pressure tank use a bladder and/or air compressor? Attach additional sheets if needed.					
4.25	Did the pressure tank(s) deviate from normal operating pressure?	☐	☐	☐		
4.26	Is the compressor pump running more than normal?	☐	☐	☐		

4.3. Bird dropping was very likely given the missing/loose bolts.

Note: Repairs were Completed NOW

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

4.27	Is the tank bladder water logged?	☐	☐	☐		
4.28	Is the tank damaged, rusty, leaking or have holes?	☐	☐	☐		
4.29	Was there any recent work performed on the tank?	☐	☐	☐		
4.30	Is the air relief vent (if there one) screened and facing down?	☐	☐	☐		
4.31	Can the inside of the pressure tank be visually inspected through an inspection port? If so, when was it last inspected?	☐	☐	☐		
5.	Review of treatment process (if applicable)	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
5.1	Has the treatment been bypassed altogether at any time or have individual processes been interrupted by power outages or other causes? If yes, provide details on when, which processes and for how long?	☐	☐	☐		
5.2	Have there been any new treatment processes added or new equipment installed?	☐	☐	☐		
5.3	Have there been any recent repairs of major unit processes or treatment equipment?	☐	☐	☐		
5.4	Have there been any changes in the operational procedures used for treating the water such as, changes in chemical dosages, flow changes, or changes in coagulant chemicals used? If yes, provide details of the change and when it occurred.	☐	☐	☐		
5.5	Has a coagulant been added at all times the plant has been filtering water?	☐	☐	☐		
5.6	Have there been changes in raw water quality?	☐	☐	☐		
5.7	Was the settled water turbidity increasing?	☐	☐	☐		
5.8	Was the finished water turbidity increasing?	☐	☐	☐		
5.9	Have filter clogging algae caused more frequent backwashing?	☐	☐	☐		
5.10	Have there been any failures in adding disinfectant for any length of time?	☐	☐	☐		
5.11	Was water delivered that did not meet CT requirements?	☐	☐	☐		
5.12	What is the entry point chlorine residual today? Free/Total?	mg/L				
5.13	Has there been any vandalism or tampering at the plant?	☐	☐	☐		
5.14	Any other treatment plant issues not previously mentioned above?	☐	☐	☐		
6.	Sources – Well(s) (Note the specific facility if any issues are found)	Y	N	N/A	Indicate Element number being described.	Indicate Element number being described.
6.1	Is there a 50 foot annular seal?	☒	☐	☐		
6.2	Is the surface seal defective or damaged or not water tight?	☐	☒	☐		

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

6.3	Is there a casing vent?	☒	☐	☐	6.5. Suggested cleaning air vent on well discharge line and matip 7 facing down.
6.4	Does the casing and/or air relief vent have a screen to prevent the entry of insects?	☒	☐	☐	
6.5	Does the vent and pump to waste terminate in an air gap of at least three pipe diameters above the ground?	☒	☐	☐	
6.6	How is the well used? (Circle if applicable)		Primary		Backup Emergency
6.7	Are there any unprotected cross connections at the wellhead?	☐	☒	☐	6.8. well caps in both wells needed Silicon caulking to prevent entry of insects.
6.8	Are there any unprotected openings in the pump or pump assembly?	☒	☐	☐	
6.9	Is the pitless adapter damaged?	☐	☐	☒	
6.10	Are there any exposed holes or cracks near the wellhead? For example electric conduit.	☐	☒	☐	
6.11	Has there been any recent work performed on the pump?	☐	☒	☐	
6.12	Is the wellhead secured to prevent unauthorized access?	☒	☐	☐	
6.13	Have there been any sewer spills, source water spills or other disturbances near the well?	☐	☒	☐	
6.14	Is the wellhead at least 18-inches above grade?	☐	☒	☐	
6.15	Is there evidence of standing water near the wellhead?	☐	☒	☐	
6.16	Is the well pit in standing water or evidence of flooding?	☐	☒	☐	
6.17	Any other well issues not previously mentioned above?	☐	☒	☐	
	Sources- Spring(s) (Note the specific facility if any issues are found)	Y	N	N/A	
6.18	Is there evidence of flooding or infiltration of surface water runoff around the spring?	☐	☐	☐	
6.19	Is the spring box improperly developed or poorly maintained?	☐	☐	☐	
6.20	Is the spring site secured (e.g. locks, fence, gate, etc).	☐	☐	☐	
6.21	Are there dead animals near the spring?	☐	☐	☐	
6.22	Any other issues about springs not previously mentioned above?	☐	☐	☐	
	Sources – Surface Water	Y	N	N/A	
6.23	Have there been algae blooms?	☐	☐	☐	
6.24	Has the source water turned over?	☐	☐	☐	
6.25	Have there been any sewer spills, source water spills or other disturbances?	☐	☐	☐	
6.26	Any other source water issues not previously mentioned above?	☐	☐	☐	

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

				N/A		
	Sources-purchased water					
6.27	Water quality issues with supplier?	☐	☐	☐		
6.28	Low disinfectant residual from supplier (typically ≤0.2 mg/L)?	☐	☐	☐		
6.29	Any other purchased water issues not previously mentioned above?	☐	☐	☐		
	Applicable to all sources					
6.30	Has an unapproved source been used?	☐	☐	☐		
6.31	Has there been a change in sources?	☐	☐	☐		
6.32	Has there been recent rapid snowmelt, heavy rainfall or flooding?	☐	☐	☐		
6.33	Any evidence of animals near the source?	☐	☐	☐		
6.34	Have there been changes in available source water (e.g. significant drop in water table, reservoir capacity)	☐	☐	☐		
6.35	Is the source water sample for ground water systems E. coli positive? This may indicate that the positive sample is originating from the source and may be a continuous source of contamination.	☐	☐	☐		
6.36	Any other source issues not previously mentioned above?	☐	☐	☐		
7.	**General Operations**				**Indicate Element number being described.**	**Indicate Element number being described.**
7.1	During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	☐	☒	☐		
7.2	What were the symptoms of illness if you received complaints about customers being sick?	N/A				
7.3	Were there any extreme weather/natural events (e.g. heat, freezing, raining, windy, fires, earthquakes etc)	☒	☐	☐	heavy rain may forced bird droppings into tank	
8.	**Significant Deficiencies**				**Indicate Element number being described.**	**Indicate Element number being described.**
8.1	Are there any unaddressed significant deficiencies? This may indicate that the problem is known and is in the process of being remedied. Include approved corrective action date and status of each corrective action.	☐	☒	☐		

1. Attach additional sheets if needed.

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 2 ASSESSMENT

Additional Comments:

Regarding item 1.11 - The most recent satisfactory coliform sample was drawn 12/19/2016 at ROU-6, 5405 Robin St. AMS

Regarding Item 4.6 - Vents and overflows are protected (no was checked). AMS

Corrected 2/14/2017

Name of SWRCB-Division of Drinking Water or LPA representative completing the form (PRINTED):

Signature: Shurbaji Date: 2-13-2017

Water system responsible party (PRINTED): Mike Higgins, Secretary Treasurer, Vallei Estates POA, Inc.

Signature: Date: February 13, 2017.

Reserved for Regulatory Agency (DDW / LPA) Review Abdel-Rahman Shurbaji, Tehachapi District

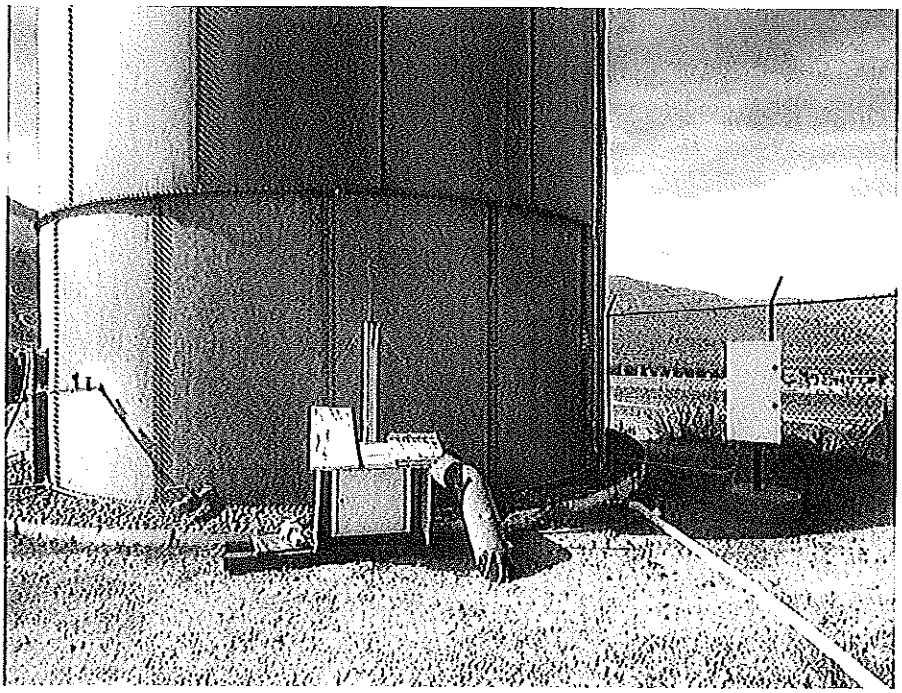
	Yes	No	Comments
1. Has assessment been successfully completed?	☒	☐	
2. Likely reason for EC+ occurrence has been found.	☒	☐	
3. System has corrected the problem.	☒	☐	
4. Were all issues identified corrected?	☒	☐	
4. Corrective Action Approved?	☒	☐	

Enclosure 2

Pictures Taken on February 13, 2017

VALLEY ESTATES POA INC. WATER SUPPLY SYSTEM NO. 1500478

The routine distribution site (14012 Daton Ct) that showed *E.coli* positive sample on January 11, 2017.



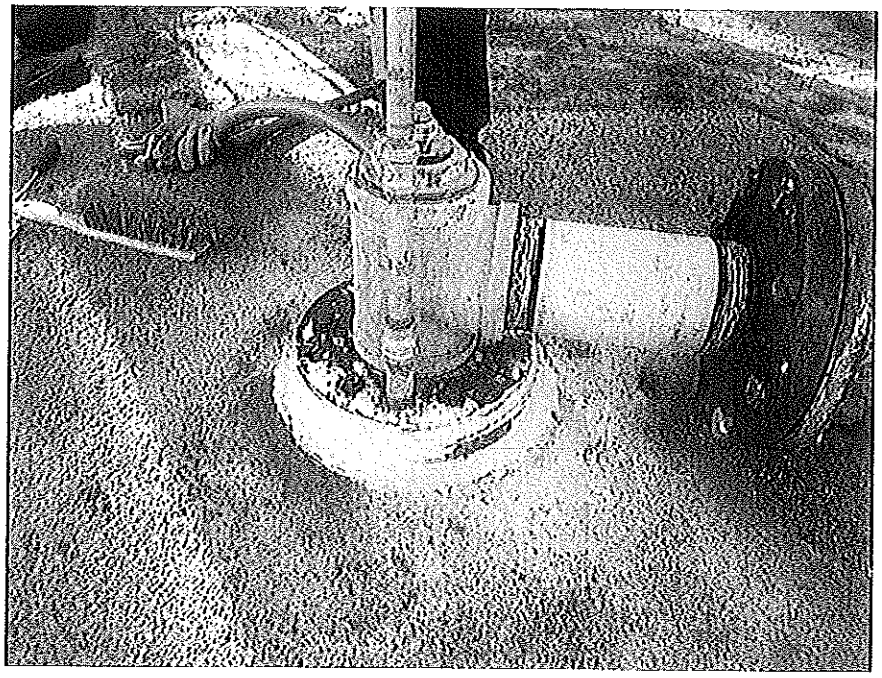
The 60,000-gallon storage tank floats on the distribution system, wherein it has a common inlet-outlet and it fills from the distribution system.

FIELD INSPECTION PHOTOS TAKEN FEB 13-14, 2017

A.M. SHURBAJI and Mike Higgins

VALLEY ESTATES POA INC. WATER SUPPLY SYSTEM NO. 1500478

The casing cap of Well 01 has an opening (Feb 13); caulking using silicon was needed. Compare to the photo taken on Feb 14 below.



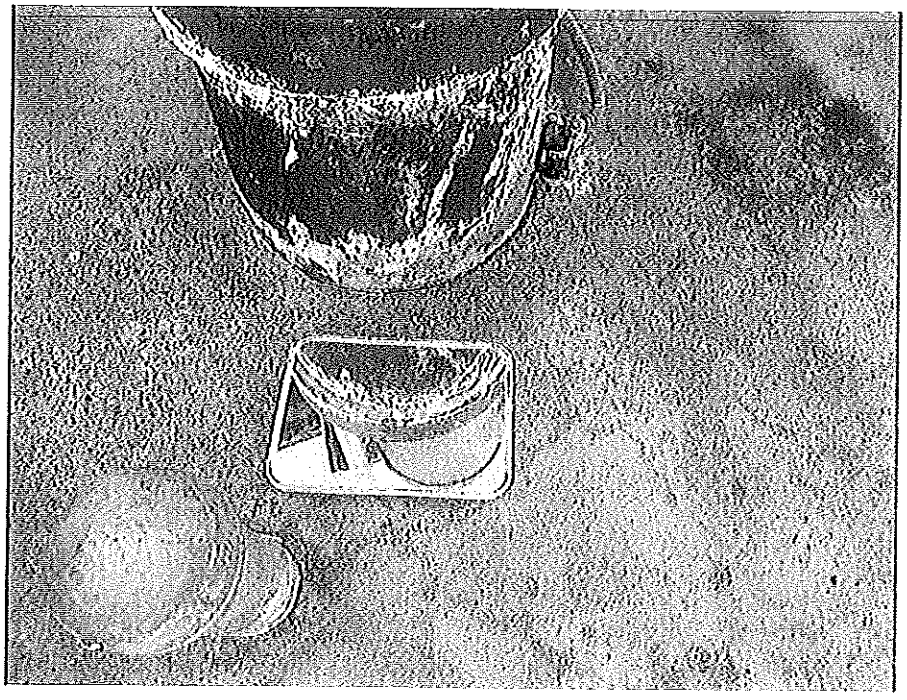
The opening in the casing cap of Well 01 was caulked using silicon on Feb 14, 2017. Photo was taken by Mr. Mike Higgins following the inspection visit.

FIELD INSPECTION PHOTOS TAKEN FEB 13-14, 2017

A.M. SHURBAJI and Mike Higgins

VALLEY ESTATES POA INC. WATER SUPPLY SYSTEM NO. 1500478

The casing cap for Well 02 needs some cleaning and silicon caulking.



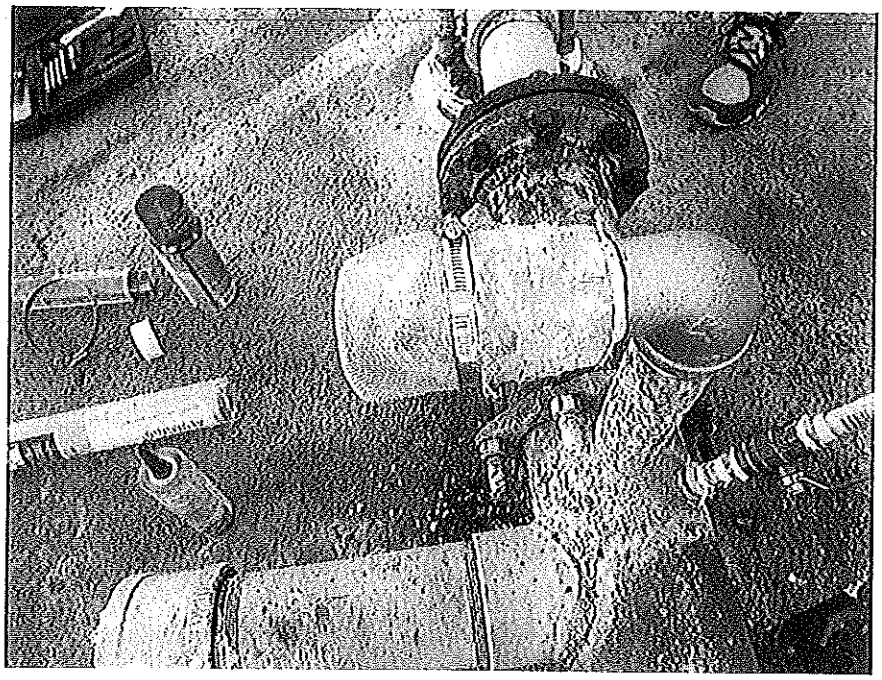
The opening in the casing cap of Well 02 (Hanning Well) was cleaned from dry weeds and it was caulked using silicon on Feb 14, 2017. Photo was taken by Mr. Mike Higgins following the inspection visit.

FIELD INSPECTION PHOTOS TAKEN FEB 13-14, 2017

A.M. SHURBAJI and Mike Higgins

VALLEY ESTATES POA INC. WATER SUPPLY SYSTEM NO. 1500478

Air Vent on Well 01 discharge line was needs to be cleaned and improved to face down.



Air Vent screen replaced and elbow added to make the vent facing down at Well 01. Photo was taken by Mr. Mike Higgins on February 14, 2017, following the inspection visit.

FIELD INSPECTION PHOTOS TAKEN FEB 13-14, 2017

A.M. SHURBAJI and Mike Higgins

Enclosure 3

Bacteriological Test Results

Valley Estates POA
Monthly Water Sample Results
System Number CA1500478
A= Absent / P= Present

Date Taken	Location	Time Taken	Sampler	Lab #	Coliform	E-coli
Monthly Water Sample Results 2017						
01/11/2017	14012 Deaton Ct	10:35	D. Gonzalez	1700854-01	P	P
01/13/2017	14012 Deaton Ct	09:15	D. Gonzalez	1701269-01	A	A
01/13/2017	5605 Hanning	08:53	D. Gonzalez	1701269-02	P	P
01/13/2017	14305 Bass Ave	09:27	D. Gonzalez	1701269-03	A	A
01/13/2017	14304 Allen Rou-4	09:22	D. Gonzalez	1701269-04	P	P
01/13/2017	5412 Marjorie St	09:29	D. Gonzalez	1701269-05	A	A
01/13/2017	5405 Robin St.	09:40	D. Gonzalez	1701269-06	A	A
01/13/2017	Marjorie Well	09:33	D. Gonzalez	1701269-07	A	A
01/13/2017	Hanning Well	08:57	D. Gonzalez	1701269-08	A	A
01/13/2017	Storage Tank	09:08	D. Gonzalez	1701269-09	P	P
02/01/2017	14012 Deaton Ct	10:10	D. Gonzalez	1702856-01	A	A
02/01/2017	5605 Hanning	10:13	D. Gonzalez	1702856-02	A	A
02/01/2017	14305 Bass	09:59	D. Gonzalez	1702856-03	A	A
02/01/2017	14304 Allen Rou-4	10:17	D. Gonzalez	1702856-04	A	A
02/01/2017	5412 Marjorie St	10:04	D. Gonzalez	1702856-05	A	A
02/01/2017	5405 Robin St.	09:53	D. Gonzalez	1702856-06	A	A
02/01/2017	Storage Tank	10:25	D. Gonzalez	1702856-07	A	A
02/08/2017	14012 Deaton Ct	09:34	D. Gonzalez	1703537-01	A	A
02/08/2017	5605 Hanning	09:15	D. Gonzalez	1703537-02	A	A
02/08/2017	14305 Bass	09:25	D. Gonzalez	1703537-03	A	A
02/08/2017	14304 Allen Rou-4	09:20	D. Gonzalez	1703537-04	A	A
02/08/2017	5412 Marjorie St	09:40	D. Gonzalez	1703537-05	A	A
02/08/2017	5405 Robin St.	09:29	D. Gonzalez	1703537-06	A	A
02/08/2017	Storage Tank	09:47	D. Gonzalez	1703537-07	A	A